

DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below adjacent to my name.

I believe I am an original, first and joint inventor of subject matter (process, machine, manufacture, or composition of matter, or an improvement thereof) which is claimed and for which a patent is sought by way of the application entitled

Superconducting Single Photon Detector

which (check) ☒ is attached hereto.
☐ and is amended by the Preliminary Amendment attached hereto.
☐ was filed on _____ as Application Serial No.
☐ and was amended on ____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information, which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) of any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

| Prior Foreign Application(s) | | | Priority Claimed | |
|------------------------------|---------|----------------------|--------------------------|--------------------------|
| Number | Country | Day/Month/Year Filed | Yes | No |
| N/A | | | <input type="checkbox"/> | <input type="checkbox"/> |

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below:

| Provisional Application Number | Filing Date |
|--------------------------------|-------------|
| N/A | |

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) or PCT international application(s) designating the United States of America listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information, which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56, which became available between the filing date of the prior application(s) and the national or PCT international filing date of this application:

| Application Serial No. | Filing Date | Status (patented, pending, abandoned) |
|------------------------|-------------|---------------------------------------|
| N A | | |

I hereby appoint the following attorney(s) and or agent(s) to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith:

Alan H. MacPherson (24,423); Brian D. Ogonowsky (31,988); David W. Heid (25,875); Norman R. Klivans (33,003); Edward C. Kwok (33,938); David E. Steuber (25,557); Michael Shenker (34,250); Stephen A. Terrile (32,946); Peter H. Kang (40,350); Ronald J. Meetin (29,089); Ken John Koestner (33,004); Omkar K. Suryadevara (36,320); David T. Millers (37,396); Michael P. Adams (34,763); Robert B. Morrill (43,817); James E. Parsons (34,691); Philip W. Woo (39,880); Emily Haliday (38,903); Tom Hunter (38,498); Michael J. Halbert (40,633); Gary J. Edwards (41,008); Daniel P. Stewart (41,332); John T. Winburn (26,822); Tom Chen (42,406); Fabio E. Marino (43,339); Don C. Lawrence (31,975); Marc R. Ascolese (42,268); Carmen C. Cook (42,433); David G. Dolezal (41,711); Roberta P. Saxon (43,087); Mary Jo Bertani (42,321); Dale R. Cook (42,434); Sam G. Campbell (42,381); Matthew J. Brigham (44,047); Hugh H. Matsubayashi (43,779); Patrick D. Benedicto (40,909); T.J. Singh (39,535); Shireen Irani Bacon (40,494); Rory G. Bens (44,028); George Wolken, Jr. (30,441); John A. Odozynski (28,769); Cameron K. Kerrigan (44,826); Paul E. Lewkowicz (44,870); Theodore P. Lopez (44,881); Mayankkumar M. Dixit (44,064); Eric Stephenson (38,321); Christopher Allenby (45,906); David C. Hsia (46,235); Mark J. Rozman (42,117); Margaret M. Kelton (44,182); Do Te Kim (46,231); Alex Chen (45,591); Monique M. Heyninck (44,763); Gregory J. Michelson (44,940); Jonathan Geld (44,702); Emmanuel Rivera (45,760); Jason FarHadian (42,523); Matthew J. Spark (43,453); and Elaine H. Lo (41,158).

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I declare that all statements made herein of my own knowledge are true, all statements made herein on information and belief are believed to be true, and all statements made herein are made with the knowledge that whoever, in any matter within the jurisdiction of the Patent and Trademark Office, knowingly and willfully falsifies, conceals, or covers up by any trick, scheme, or device a material fact, or makes any false, fictitious or fraudulent statements or representations, or makes or uses any false writing or document knowing the same to contain any false, fictitious or fraudulent statement or entry, shall be subject to the penalties including fine or imprisonment or both as set forth under 18 U.S.C. 1001, and that violations of this paragraph may jeopardize the validity of the application or this document, or the validity or enforceability of any patent, trademark registration, or certificate resulting therefrom.

| | | | |
|------------------------------------|---------------------------|--------------|--------|
| Full name of first joint inventor: | Roman Sobolewski | | |
| Inventor's Signature: | | Date: | |
| Residence: | Pittsford, New York 14534 | | |
| Post Office Address: | 3 Cambric Circle | Citizenship: | POLAND |
| | Pittsford, NY 14534 | | |

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|-------------------------------------|------------------------------|--------------|--------|
| Full name of second joint inventor: | Grigory N. Gol'tsman | | |
| Inventor's Signature: | | Date: | |
| Residence: | Moscow, Russia | | |
| Post Office Address: | 74 Altufevskoe Ch., Apt. 501 | Citizenship: | RUSSIA |
| | Moscow, 127349, Russia | | |

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| Full name of third joint inventor: | Alexey D. Semenov | | |
| Inventor's Signature: | | Date: | |
| Residence: | Moscow, Russia | | |
| Post Office Address: | 11 Lukinskaya Street, Apt. 616 | Citizenship: | RUSSIA |
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|-------------------------------------|------------------------------------|--------------|--------|
| Full name of fourth joint inventor: | Oleg V. Okunev | | |
| Inventor's Signature: | | Date: | |
| Residence: | Moscow, Russia | | |
| Post Office Address: | 4 Ak. Vinogradova Street, Apt. 172 | Citizenship: | RUSSIA |
| | Moscow, 113143, Russia | | |

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|------------------------------------|-----------------------|--------------|-----|
| Full name of fifth joint inventor: | Kenneth R. Wilsher | | |
| Inventor's Signature: | | Date: | |
| Residence: | Palo Alto, California | | |
| Post Office Address: | 1085 Emerson St | Citizenship: | USA |
| | Palo Alto, CA 94301 | | |

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|------------------------------------|---------------------------|--------------|--------|
| Full name of sixth joint inventor: | Steven A. Kasapi | | |
| Inventor's Signature: | | Date: | |
| Residence: | San Francisco, California | | |
| Post Office Address: | 584 Castro Street | Citizenship: | CANADA |
| | San Francisco, CA 94114 | | |

RECORDATION FORM COVER SHEET PATENTS ONLY

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

To the Honorable Director of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying parties

- (a) Roman Sobolewski
- (b) Gregory N. Golitsman
- (c) Alexey D. Semenov
- (d) Oleg V. Okunev
- (e) Kenneth R. Wilsher
- (f) Steven A. Kasapi

Additional names of conveying party attached?

☒ Yes ☐ No

2. Name and address of receiving party

Name: Schlumberger Technologies, Inc.

Street Address: 150 Baytech Drive

City: San Jose State: CA Zip: 95134

Country: USA

10542 U.S. PRO
09/628116
07/28/00

3. Nature of Conveyance:

- ☒ Assignment ☐ Merger
- ☐ Security Agreement ☐ Change of Name
- ☐ Other _____

Execution Date: _____

Name and address of receiving party(ies)

Name: University of Rochester

Street Address: 518 Hylan Building

City: Rochester State: NY Zip: 14627

Country: USA

4. Application number(s) or patent number(s)

If this document is being filed together with a new application, the execution date of the application is: July 26, 2000

A. Patent Application No.(s) -

Title: Superconducting Single Photon Detector

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Patrick D. Benedicto

Internal Address: SKJERVEN MORRILL MacPHERSON LLP

Street Address: 25 METRO DRIVE SUITE 700

City: SAN JOSE State: CA ZIP: 95110

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$40.00

- ☒ Authorized to be charged to Deposit Account 19-2386
- ☒ Charge Deposit Account 19-2386 for any additional fees required for this conveyance and credit deposit account 19-2386 any amounts overpaid

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8. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Patrick D. Benedicto 40,909

Name of Person Signing

Signature

Date

Total number of pages comprising cover sheet: 3

SIGNATURE OF NOTARY

Executed this _____ day of _____, 19____.

Grigory N. Gol'tsman

WITNESSED:

Signature

Date

Type or print name of witness

Executed this _____ day of _____, 19____.

Alexey D. Semenov

WITNESSED:

Signature

Date

Type or print name of witness

Executed this _____ day of _____, 19____.

Oleg V. Okunev

WITNESSED:

Signature

Date

Type or print name of witness